



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
Catawba, SC 29704-0007

FED EX NO. 7754 1527 5895

January 14, 2016

Technical Management Section
South Carolina Department of Health and Environmental Control
Bureau of Air Quality
2600 Bull Street
Columbia, SC 29201-1708

Re: 2015 Fourth Quarter CEM Report Summaries
Air Permit Number TV-2440-0005

Dear Sir or Madam:

Enclosed are the 2015 Fourth Quarter Continuous Emission Monitor Report Summaries and Title V monitoring report for Resolute Forest Products – Catawba Mill, Air Permit Number TV-2440-0005. Logs detailing each specific incident are also enclosed.

Based on information and belief formed after reasonable inquiry, I certify to the best of my knowledge, that the statements and information in this submission are true, accurate, and complete.

If there are any questions, please feel free to contact Dale Herendeen at (803) 981-8009.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Scott Palmer', is written over a horizontal line.

Scott Palmer
General Manager

SP/dlh
File 208.17

Enclosures

cc: Zach Pensa, Region 3 Lancaster EQC Office

2015 Fourth Quarter CEM Report Summaries

Title V Permit Unit ID 01 – Woodyard

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
01.1	1300	N/A	N/A	Refers to FW.4
01.2	1300	N/A	N/A	Refers to FW.4
01.3	1300	No	N/A	Refers to FW.4
01.4	1300	N/A	N/A	Refers to FW.1

Title V Permit ID 02 – Kraft Process – Kraft Pulp Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
02.1	5210, 5220, 5230, 5240, and 5250	No	N/A	N/A
02.2(A)	5210 & 5230	Yes	Semi-annual	See below.
02.2(B)	5210 & 5230	N/A	N/A	Refers to 08.7.
02.3	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to MACT conditions.
02.4	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to FW.1.

Condition 02.2(A)

Equip IDs 5210 and 5230

Reporting Frequency: Semi-Annually

There were no parameters outside the ranges listed in Attachment H for the scrubber (Control Device ID 5260C) during the semi-annual period.

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Title V Permit ID 03 – Kraft Process: Kraft Bleach Plant

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
03.1	5300	Yes	Semi-annual	See note below.
03.2	5300	N/A	N/A	Refers to MACT conditions.
03.3	5300	N/A	N/A	Refers to FW.1

Condition 03.1

Equip ID 5300

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.03.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is continuous monitoring of specific scrubber parameters.
- Cause(s) and corrective action(s) are detailed on the enclosed logs.

There was one incident during which a parameter was outside the maximum rate during the reporting period. See the enclosed log for details.

Title V Permit ID 04 – Kraft Process: Chlorine Dioxide Generator

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
04.1	1790	Yes	Semi-annual	See note below.
04.2	1790	No	N/A	N/A

Condition 04.1

Equip ID 1790

Reporting Frequency: Semi-Annually

There were no variations of surrogate monitoring parameters for the chlorine dioxide scrubber (Control Device ID 1790C) during the semi-annual reporting period.

Title V Permit ID 05 – TMP Process

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
05.1	4400	No	N/A	N/A
05.2	4400	No	N/A	N/A

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Title V Permit ID 06 – Paper Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
06.1(A)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	N/A	N/A	Refers to FW.4.
06.1(B)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	Yes	Semi-annual	See note below.
06.2(A)	2010, 4610, 4120, 4130, & 9900	No	N/A	N/A
06.2(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(A)	2010	No	N/A	N/A
06.3(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(C)	4610	Yes	Semi-annual	See note below.
06.3(D)	9900	Yes	Semi-annual	See note below.
06.4	4110	Yes	Semi-annual	See note below.
06.5(A)	2010	No	N/A	N/A
06.5(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.5(C)	4610	Yes	Semi-annual	See note below.
06.5(D)	9900	Yes	Semi-annual	See note below.
06.6(A)	4610	Yes	Semi-annual	See note below.
06.6(B)	9900	Yes	Semi-annual	See note below.
06.7	4110	No	N/A	N/A
06.8	2010	No	N/A	N/A
06.9	2000, 2010, 2100, 4600, 4610, 4100, 4110, 4120, & 4130	N/A	N/A	Refers to FW.1
06.10	2005, 2010, 4605, & 4610	N/A	N/A	Refers to MACT conditions

Condition 06.1(B)

Equip IDs 2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704

Reporting Frequency: Semi-Annually

During the reporting period, no abnormal dust emissions were noted on daily inspection reports during the semi-annual period.

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Condition 06.2(B)

Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Kerosene was not utilized in the Hot Oil Heating System (4130); therefore, no visual inspections were performed during the reporting period. The Infrared Dryer (4120) was removed from service at the end of May 2013.

Condition 06.3(B)

Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

The Infrared Dryer (4120) was removed from service at the end of May 2013. Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130):

No. 3 Paper Machine Hot Oil Heater Fuel Usage (ID 4130)

Month	Natural Gas (MMBtu)	Propane (gallons)	Kerosene (gallons)
June-14	4,565	0	0
July-14	3,974	0	0
August-14	4,583	0	0
September-14	4,667	0	0
October-14	4,737	0	0
November-14	4,944	0	0
December-14	4,551	0	0
January-15	5,292	0	0
February-15	4,561	0	0
March-15	3,905	0	0
April-15	5,017	0	0
May-15	5,115	0	0
June-15	4,618	0	0
July-15	4,714	0	0
August-15	4,429	0	0
September-15	4,618	0	0
October-15	4,838	0	0
November-15	4,208	0	0
December-15	5,336	0	0

2015 Fourth Quarter CEM Report Summaries

Condition 06.3(C)

Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of kerosene and propane for the No. 2 Coater Dryer (4610) are shown below:

	Kerosene (gallons)	12-Month Sum	Propane (gallons)	12-Month Sum
July-14	0	109,361	0	0
August-14	0	109,361	0	0
September-14	0	109,361	0	0
October-14	0	109,361	0	0
November-14	6,695	116,056	0	0
December-14	0	116,056	0	0
January-15	0	30,597	0	0
February-15	18,669	25,364	0	0
March-15	0	25,364	0	0
April-15	0	25,364	0	0
May-15	0	25,364	0	0
June-15	0	25,364	0	0
July-15	0	25,364	0	0
August-15	0	25,364	0	0
September-15	0	25,364	0	0
October-15	0	25,364	0	0
November-15	0	18,669	0	0
December-15	0	18,669	0	0

Condition 06.3(D)

Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make-Up Air Units (4610) are shown below:

	Natural Gas (scf)	12-Month Rolling Sum	Propane (gallons)	12-Month Rolling Sum
July-14	50	29,781,384	0	0
August-14	0	29,781,384	0	0
September-14	0	29,781,384	0	0
October-14	1,395,773	30,811,869	0	0
November-14	3,439,389	29,597,946	0	0
December-14	3,572,854	29,222,342	0	0
January-15	10,665,054	29,305,978	0	0
February-15	11,559,807	36,001,116	0	0
March-15	3,299,664	35,051,658	0	0
April-15	342,261	34,274,852	0	0
May-15	0	34,274,852	0	0
June-15	5	34,274,857	0	0
July-15	8	34,274,814	0	0
August-15	252	34,275,067	0	0
September-15	137	34,275,204	0	0
October-15	3,009,664	35,889,096	0	0
November-15	5,036,252	37,485,959	0	0
December-15	5,008,259	38,921,364	0	0

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Condition 06.4 Equip ID 4110

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Air Floatation Dryer (4110) are shown below:

No. 3 Paper Machine Floatation Dryer Fuel Usage ID 4110

Month	Natural Gas MMBtu	Propane (gallons)	Kerosene (gallons)	PM / MMBtu
July-14	7,004	0	0	0.0076
August-14	8,077	0	0	0.0076
September-14	8,225	0	0	0.0076
October-14	8,349	0	0	0.0076
November-14	8,713	0	0	0.0076
December-14	8,022	0	0	0.0076
January-15	9,326	0	0	0.0076
February-15	8,038	0	0	0.0076
March-15	6,883	0	0	0.0076
April-15	8,843	0	0	0.0076
May-15	9,015	0	0	0.0076
June-15	8,140	0	0	0.0076
July-15	8,309	0	0	0.0076
August-15	7,805	0	0	0.0076
September-15	8,138	0	0	0.0076
October-15	8,527	0	0	0.0076
November-15	7,416	0	0	0.0076
December-15	9,403	0	0	0.0076

The Air Floatation Dryer demonstrated compliance with the BACT limit of 0.0164 lb PM per million BTU.

Condition 06.5(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130) are shown for condition 5C.06.3(B) above. The Infrared Dryer (4120) was removed from service at the end of May 2013.

Condition 06.5(C) Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

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Condition 06.5(D)

Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

Condition 06.6(A)

Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

Condition 06.6(B)

Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

Title V Permit ID 07 – Chemical Recovery

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.1(A)	2400, 2402, 2500, 5100	No	N/A	N/A
07.1(B)	2515, 2520, 5115, 5120, 2700, 2701, 2702, & 2703	N/A	N/A	Refers to FW.4
07.1(C)	2700 & 2701 (2725C)	No	N/A	N/A
07.2(A)	2505 & 2723	Yes	Semi-annual	See note below.
07.2(B)	2510 & 5110 (2511C)	Yes	Semi-annual	See note below.
07.3	5105	Yes	Semi-annual	See note below.
07.4(A)	2505	N/A	N/A	Refers to MACT conditions
07.4(B1)	2505	N/A	N/A	Refers to MACT conditions
07.4(B2)	2505	No	N/A	N/A
07.5(A)	2510	N/A	N/A	Refers to MACT conditions
07.5(B1)	2510	N/A	N/A	Refers to MACT conditions
07.5(B2)	2510	No	N/A	N/A
07.6(A)	5105	N/A	N/A	Refers to MACT conditions
07.6(B1)	5105	N/A	N/A	Refers to MACT conditions
07.6(B2)	5105	No	N/A	N/A

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Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.6(C)	5105	N/A	N/A	Refers to FW.3.
07.7(A)	5110	N/A	N/A	Refers to MACT conditions.
07.7(B)	5110	N/A	N/A	Refers to MACT conditions.
07.8(A)	2723	N/A	N/A	Refers to MACT conditions.
07.8(B)	2723	N/A	N/A	Refers to MACT conditions.
07.8(C1)	2723	N/A	N/A	Refers to MACT conditions.
07.9(A)	2725C	No	N/A	N/A
07.9(B)	2726C & 2724C	No	N/A	N/A
07.9(C)	2724C, 2725C & 2726C	Yes	Semi-annual	See note below.
07.10(A)	5105 & 2723	No	N/A	N/A
07.10(B)	2723	No	N/A	N/A
07.10(C)	5105	No	N/A	N/A
07.10(D1)	2723	N/A	N/A	Refers to FW.2.
07.10(D2)	2723	N/A	N/A	Refers to FW.3.
07.10(D3)	5105	N/A	N/A	Refers to FW.3.
07.11(A)	5105 & 2723	No	N/A	N/A
07.11(B1)	2723	No	N/A	N/A
07.11(B2)	5105	No	N/A	N/A
07.11(C1)	2723	N/A	N/A	Refers to FW.2.
07.11(C2)	2723	N/A	N/A	Refers to FW.3.
07.11(C3)	5105	N/A	N/A	Refers to FW.3.
07.12(A)	5105 & 2723	No	N/A	N/A
07.12(B)	5105 & 2723	Yes	Semi-annual	See note below.
07.12(C1)	2723	N/A	N/A	Refers to FW.2.
07.12(C2)	2723	N/A	N/A	Refers to FW.3.
07.12(C3)	5105	N/A	N/A	Refers to FW.3.
07.13(A)	5260 (5260C)	N/A	N/A	Refers to 02.2.
07.13(B)	2400, 2500, 5100, & 5260	N/A	N/A	Refers to 08.7.
07.14	2505	Yes	Semi-annual	See note below.
07.15	5105	Yes	Semi-annual	See note below.
07.16(A)	2510	Yes	Semi-annual	See note below.
07.16(B)	5110	Yes	Semi-annual	See note below.
07.17(A)	2723	Yes	Semi-annual	See note below.
07.17(B1)	2723	N/A	N/A	Refers to FW.2.
07.17(B2)	2723	N/A	N/A	Refers to FW.3.
07.18(A1)	2723	N/A	N/A	See note below.

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Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.18(A2)	2723	N/A	N/A	Refers to FW.3.
07.19	2400, 2700, 2701, 2702, 2723, 5105, 5110, & 5115	N/A	N/A	Refers to FW.1.
07.20 & 0.7.21	2400, 2500, & 5100	N/A	N/A	Refer to MACT conditions.
07.22	2505, 2110, 2723, 5105, & 5110	N/A	N/A	Refer to MACT conditions.

Condition 07.2(A)

Equip IDs 2505 & 2723

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no three-hour opacity episodes for the No. 2 Lime Kiln (ID 2723) during the semi-annual reporting period.

There were no three-hour opacity episodes for the No. 2 Recovery Furnace (ID 2505) during the semi-annual reporting period.

A summary is listed below for the continuous opacity monitoring downtime and excess emissions for the reporting period.

Continuous Opacity Monitoring – No. 2 Recovery Furnace

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	1.00 %	2.00 %	1.50 %
Excess Emission	0.04 %	0.04 %	0.04 %
Overall Compliance	98.97 %	97.96 %	98.46 %

Continuous Opacity Monitoring – No. 2 Lime Kiln

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	0.11 %	0.10 %	0.10 %
Excess Emission	0.03 %	0.04 %	0.03 %
Overall Compliance	99.86 %	99.86 %	99.86 %

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Condition 07.2(B)

Control Device ID 2511C

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were no instances of deviation from the scrubber monitoring ranges. See the enclosed log for details.

Condition 07.3

Equip ID 5105

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.3.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no three-hour opacity episodes during the semi-annual reporting period.

A summary is listed below for the continuous opacity monitoring downtime and excess emissions for the reporting period.

Continuous Opacity Monitoring – No. 3 Recovery Furnace

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	0.23 %	0.00 %	0.12 %
Excess Emission	0.02 %	0.00 %	0.01 %
Overall Compliance	99.75 %	100.00 %	99.87 %

Condition 07.9(C)

Control Device IDs 2724C, 2725C, & 2726C

Reporting Frequency: Semi-Annually

For the Slaker Scrubber (ID 2725C), there were no variations of a surrogate monitoring parameters during the semi-annual period.

No abnormal dust emissions were noted on the daily logs for the lime silos baghouses (IDs 2724C and 2726C) during the semi-annual reporting period.

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Condition 07.12(B) Equip IDs 2723 & 5105

Reporting Frequency: Semi-Annually

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable.

The required data is recorded for the No. 3 Recovery Furnace (ID 5105). A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

Continuous NOx Emissions Monitoring – No. 3 Recovery Furnace

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	1.68 %	0.13 %	0.92 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	98.32 %	99.87 %	99.08 %

Condition 07.14 Equip ID 2505

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.14.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. There were no excess emissions in the semi-annual period.

Continuous Emissions Monitoring – No. 2 Recovery Furnace

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	1.38 %	2.08 %	1.73 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	98.62 %	97.92 %	98.27 %

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Condition 07.15 Equip ID 5105

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.15.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period.

Continuous Emissions Monitoring – No. 3 Recovery Furnace

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	1.37 %	0.92 %	1.15 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	98.63 %	99.08 %	98.85 %

Condition 07.16(A) Equip ID 2510

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were no instances of scrubber monitoring range deviation.

Condition 07.16(B) Equip ID 5110

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were no instances of scrubber monitoring range deviation.

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Condition 07.17(A)

Equip ID 2723

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.17.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period.

Continuous Emissions Monitoring – No. 2 Lime Kiln

	3rd Quarter	4th Quarter	Semi-Annual Period
Monitor Downtime	0.85 %	0.54 %	0.53 %
Excess Emission	0.00 %	0.02 %	0.00 %
Overall Compliance	99.15 %	99.44 %	99.29 %

Condition 07.18(A1)

Equip ID 2723

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable. If/when the modifications occur, Facility-Wide condition FW.2 will apply.

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Title V Permit ID 08 – Utilities

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
08.1(A)	2550	N/A	N/A	Refers to FW.4.
08.1(B)	2605 & 3705	Yes	Quarterly	See note below.
08.2(A)	2550	N/A	N/A	Refers to FW.4.
08.2(B1)	2605 & 3705	Yes	Semi-annual	See note below.
08.2(B2)	2605 & 3705	No	N/A	N/A
08.2(C)	2605 & 3705	No	N/A	N/A
08.3(A)	2550	No	N/A	N/A
08.3(B)	2605 & 3705	No	N/A	N/A
08.4	2550	Yes	Quarterly	Submitted under separate cover.
08.5	2605 & 3705	Yes	Annual	Submitted under separate cover.
08.6	2605 & 3705	Yes	Semi-annual	See note below.
08.7	2605, 3705, 5260, 5270, & 9820	Yes	Semi-annual	See note below.
08.8	2605, 3705, 5260, 5270, & 9820	N/A	N/A	Refers to MACT conditions.

Condition 08.1(B)

Equip IDs 2605 & 3705

Reporting Frequency: Quarterly

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous opacity monitoring monitor downtime and excess emissions for the quarter. The precipitator bypass minutes are also listed below.

2015 Fourth Quarter CEM Report Summaries

Continuous Opacity Monitoring

	No. 1 Combination Boiler (ID 2605)	No. 2 Combination Boiler (ID 3705)
Monitor Downtime	0.46 %	0.11 %
Excess Emissions	0.02 %	0.08 %
Overall Compliance	99.52 %	99.81 %
Precipitator Bypass	515 minutes	125 minutes

There were no periods of 3-hour opacity episodes during the quarter for either boiler.

There was one brief trip of the precipitator for No. 1 Combination Boiler and two brief trips of the precipitator for No. 2 Combination Boiler within the quarter. Specific details are on the enclosed logs for each boiler.

Condition 08.2(B1)

Equip IDs 2605 & 3705

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous opacity monitoring monitor downtime and excess emissions for the semi-annual reporting period. The precipitator bypass minutes are also listed below.

Continuous Opacity Monitoring

	No. 1 Combination Boiler (ID 2605)	No. 2 Combination Boiler (ID 3705)
Monitor Downtime	1.05 %	0.14 %
Excess Emissions	0.02 %	0.07 %
Overall Compliance	98.94 %	99.80 %
Precipitator Bypass	6434 minutes	267 minutes

There was one brief trip of the precipitator for No. 1 Combination Boiler and two brief trips of the precipitator for No. 2 Combination Boiler within the semi-annual period. Specific details are on the enclosed logs for each boiler.

2015 Fourth Quarter CEM Report Summaries

Condition 08.6

Equip IDs 2605 & 3705

Reporting Frequency: Semi-Annually

Tire-derived fuel (TDF) rate records for the semi-annual reporting period indicate that there were no rates above the 1.5-TPH limit.

Condition 08.7

Equip IDs 2605, 3705, 5260, 5270, & 9820

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.7.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is positive operation of flame failure system and vent valve position.
- Cause and corrective actions are detailed on the enclosed logs.

During the semi-annual period, there were 13 vents of the low volume high concentration (LVHC) gas system, and seven vents of the high volume low concentration (HVLC) gas system, due to a variety of causes.

Note: Reports required under 40 CFR Part 60 Subpart S and General Provisions are being submitted separately to the Air Toxics Group. A copy is attached to this report for your review.

Title V Permit ID 09 – Waste Treatment

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
09.1(A)	9800 & 9801	No	N/A	N/A
09.1(B)	2902 through 2905	N/A	N/A	Refers to FW.4
09.2	2902 through 2905	No	N/A	N/A
09.3	2903	Yes	Semi-annual	See note below.
09.4	9801	N/A	N/A	Refers to 08.7
09.5	9801	N/A	N/A	Refers to MACT conditions

Condition 09.3

Equip ID 2903

Reporting Frequency: Semi-Annually

Monthly records indicate the No. 1 Holding Basin Pump No. 2 did not operate more than 7000 hours per year.

2015 Fourth Quarter CEM Report Summaries

Title V Permit ID 10 – Storage Tanks

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
10.1	1100	No	N/A	N/A
10.2	1100	No	N/A	N/A

Title V Permit ID 11 – Miscellaneous

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
11.1	2900 & 1000	N/A	N/A	Refer to FW.4

Facility Wide Conditions

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
FW.1	All	No	N/A	N/A
FW.2	2723	Yes	Semi-annual	See note below.
FW.3	2723 & 5105	No	N/A	N/A
FW.4	1300, 2000, 2005, 4600, 4605, 4100, 4110, 9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610, 4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703, 2550, 2902, 2903, 2904, 2905, 2900, & 1100	Yes	Semi-annual	See note below.
FW.5	5210, 5240, 2400,	Yes	Semi-annual	See notes below.
FW.6	5100, 5260, 5260C,			
FW.7	2605, & 3705	No	N/A	N/A

2015 Fourth Quarter CEM Report Summaries

Condition FW.2
Equip ID 2723

Reporting Frequency: Semi-Annually

Lime Kiln production rates are shown below:

Month	Kiln Production TPD	12- Month Rolling Avg
July-14	368	321
August-14	344	321
September-14	382	326
October-14	363	329
November-14	334	327
December-14	323	326
January-15	322	329
February-15	309	333
March-15	165	331
April-15	339	331
May-15	387	335
June-15	390	336
July-15	379	336
August-15	386	340
September-15	317	335
October-15	344	333
November-15	346	334
December-15	316	333

The 12-month rolling sum for lime kiln operation did not exceed the 465-ton per day limit during the reporting period.

Condition FW.4

**Equip IDs 1300, 2000, 2005, 4600, 4605, 4100, 4110,
9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610,
4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700,
2701, 2702, 2703, 2550, 2902,
2903, 2904, 2905, 2900, & 1100**

Reporting Frequency: Semi-Annually

Visual emissions inspections were conducted on the sources listed below and the frequencies indicated. There were no incidences of abnormal VE results during the semi-annual reporting period.

Condition FW.5(A1)
Equip ID 5260C

Reporting Frequency: Semi-Annually

Records of liquid flow and liquid pH are maintained. There were no incidences of variances from established parameters during the reporting period.

2015 Fourth Quarter CEM Report Summaries

Condition FW.5(A2)

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of the combination boiler that is combusting NCG streams, the daily bark fired in each combination boiler, and the daily Kraft pulp production are maintained. The daily bark/Kraft pulp production ratio and the 30-day rolling average ratio are calculated. There were no incidences of variances from the minimum level during the reporting period.

Condition FW.5(C)

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of monthly and 12-month rolling sums of SO₂ emissions are maintained. There were no incidences of monthly 12-month sums above the annual SO₂ PSD BACT limit during the reporting period.

Condition FW.6

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of monthly and 12-month rolling average of unbleached pulp production are maintained. There were no incidences of rolling 12-month averages above the production limit during the reporting period.

2015 Fourth Quarter CEM Report Summaries

Conditions for MACT Affected Sources

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
MACT.1(C)	5210, 5220, 5230, 5240, 5250, 2400, 2500, 5100, 2605, & 3705	Yes	Semi-annual	See note below.
MACT.2(A)	5210, 5220, 2400, 2500, 5100, 9800, & 9801	Yes	Semi-annual	See note below.
MACT.3(A)	5300	Yes	Semi-annual	See note below.
MACT.4	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 5100, 2605, 3705, 9800, & 9801	No	N/A	N/A
MACT.5(A2)	2505, 2723, & 5105	Yes	Quarterly	See note below.
MACT.5(C)	2510 & 5110	Yes	Quarterly	See note below.
MACT.6	2010 & 4610	Yes	Semi-annual	See note below.
MACT.7	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 9800, & 9801	No	N/A	N/A
MACT.8, MACT.9, & MACT.10	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 2605, 3705, 9800, & 9801	No	N/A	N/A

2015 Fourth Quarter CEM Report Summaries

Condition MACT.1(C)

**Equip IDs 5210, 5220, 5230, 5240, 5250
2400, 2500, 5100, 2605, & 3705**

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.2(A)

**Equip IDs 5210, 5220, 2400, 2500,
5100, 9800, & 9801**

Reporting Frequency: Semi-Annually

Condensate Collection and Treatment System excess emissions were greater than 1% of the semi-annual period operating time. CMS downtime was less than 5% of operating time. See the attached MACT I report for details.

Condition MACT.3(A)

Equip ID 5300

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.5(A2)

Equip IDs 2505, 2723, & 5105

Reporting Frequency: Quarterly

The record of exceedances is provided in the attached MACT II report.

Condition MACT.5(C)

Equip IDs 2510 & 5110

Reporting Frequency: Quarterly

The record of exceedances is provided in the attached MACT II report.

Condition MACT.6

Equip IDs 2010 & 4610

Reporting Frequency: Semi-Annually

See the attached POWC MACT report.



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Kraft Process - Bleach Plant Scrubber

Report Period 7/1/15 to 12/31/15

Permit Conditions: 5.C.03.1 & MACT.3(A)


This report is for variations outside of surrogate monitoring parameters or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			pH, Flow, delta P			
There were no excursion events or downtime during the month of July 2015.						
There were no excursion events or downtime during the month of August 2015.						
There were no excursion events or downtime during the month of September 2015.						
1	10/23/2015	3:00 PM	pH	780	pH control was previously placed in manual mode (occurred intermittently over a few days)	Placed pH control back into cascade mode
There were no excursion events or downtime during the month of November 2015.						
There were no excursion events or downtime during the month of December 2015.						

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

 1/15/16



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
1	7/4/2015	6:30 AM	-	x				30	out of alignment	realigned monitor
2	7/4/2015	9:50 AM	-	x				20	purge failure alarm	changed purge filters
3	7/6/2015	5:00 AM	-	x				30	out of alignment	realigned monitor
4	7/6/2015	10:20 AM	-	x				20	out of alignment	realigned monitor
5	7/6/2015	5:20 PM	-	x				15	out of alignment	realigned monitor
6	7/8/2015	10:48 AM	-	x				32	out of alignment	realigned monitor
7	7/9/2015	8:56 AM	-	x				7	out of alignment	realigned monitor
8	7/9/2015	10:27 AM	-	x				3	out of alignment	realigned monitor
9	7/11/2015	10:35 AM	-	x				20	out of alignment	realigned monitor
10	7/11/2015	2:18 PM	-	x				52	out of alignment	realigned monitor
11	7/12/2015	10:00 AM	-	x				10	out of alignment	realigned monitor
12	7/12/2015	2:35 PM	-	x				15	out of alignment	realigned monitor
13	7/13/2015	8:24 PM	-	x				24	falsely high rdgs due to intense rain	storm subsided
14	7/14/2015	1:06 PM	-	x				30	out of alignment	realigned monitor
15	7/15/2015	1:48 PM	-	x				27	out of alignment	realigned monitor
16	7/19/2015	8:45 AM	-	x				15	out of alignment	realigned monitor
17	7/19/2015	2:36 PM	-	x				24	out of alignment	realigned monitor
18	7/20/2015	7:48 AM	-	x				5	out of alignment	realigned monitor
19	7/20/2015	2:12 PM	-	x				18	out of alignment	realigned monitor
20	7/21/2015	8:30 AM	-	x				28	out of alignment	realigned monitor
21	7/22/2015	4:00 PM	-	x				25	out of alignment, obstruction	realigned monitor, cleaned
22	7/23/2015	11:00 AM	-	x				25	out of alignment	realigned monitor
23	7/23/2015	1:45 PM	-	x				6	out of alignment	realigned monitor
24	7/29/2015	1:40 AM	-	x				45	out of alignment	realigned monitor
25	7/29/2015	3:00 PM	-	x				3	out of alignment	realigned monitor
26	7/30/2015	9:48 AM	-	x				24	out of alignment	realigned monitor
27	7/30/2015	5:12 PM	-	x				24	out of alignment	realigned monitor
1	8/1/2015	12:50 AM	-	x				10	out of alignment	realigned monitor
2	8/2/2015	9:40 PM	-	x				15	out of alignment	realigned monitor
3	8/3/2015	11:18 AM	-	x				20	out of alignment	realigned monitor
4	8/3/2015	8:42 PM	-	x				24	out of alignment	realigned monitor
5	8/4/2015	5:30 AM	-	x				15	out of alignment	realigned monitor
6	8/5/2015	7:10 PM	-	x				15	out of alignment	realigned monitor
7	8/6/2015	1:01 AM	-	x				6	out of alignment	realigned monitor
8	8/6/2015	10:00 PM	-	x				15	out of alignment	realigned monitor
9	8/7/2015	1:54 AM	-	x				17	out of alignment	realigned monitor
10	8/9/2015	9:12 PM	-	x				18	out of alignment	realigned monitor
11	8/11/2015	5:12 AM	-	x				8	out of alignment	realigned monitor
12	8/11/2015	10:48 PM	-	x				42	monitor affected by heavy rain & wind (thunderstorm)	storm subsided
13	8/12/2015	8:00 PM	-	x				40	purge failure alarm	changed purge switch
14	8/15/2015	3:25 AM	-	x				10	out of alignment	realigned monitor
15	8/15/2015	11:06 AM	-	x				24	out of alignment	realigned monitor
16	8/15/2015	3:48 PM	-	x				19	out of alignment	realigned monitor



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
17	8/16/2015	10:55 AM	-	x				15	out of alignment	realigned monitor
18	8/16/2015	2:30 PM	-	x				5	out of alignment	realigned monitor
19	8/17/2015	1:45 AM	-	x				10	out of alignment	realigned monitor
20	8/17/2015	9:48 AM	-	x				22	out of alignment	realigned monitor
21	8/17/2015	7:53 PM	-	x				7	out of alignment	realigned monitor
22	8/19/2015	10:54 AM	-	x				6	out of alignment	realigned monitor
23	8/19/2015	11:30 AM	-	x				60	annual monitor QA check	completed
24	8/20/2015	8:30 PM	-	x				24	out of alignment	realigned monitor
25	8/21/2015	7:36 AM	-	x				19	out of alignment	realigned monitor
26	8/25/2015	9:20 AM	-	x				7	out of alignment	realigned monitor
27	8/25/2015	1:55 PM	-	x				15	out of alignment	realigned monitor
28	8/26/2015	4:36 PM	-	x				12	out of alignment	realigned monitor
29	8/26/2015	5:10 PM	-	x				10	out of alignment	realigned monitor
30	8/30/2015	11:42 AM	-	x				6	out of alignment	realigned monitor
31	8/30/2015	11:50 AM	-	x				10	out of alignment	realigned monitor
32	8/30/2015	5:10 PM	-	x				15	out of alignment	realigned monitor
33	8/31/2015	5:30 AM	-	x				15	out of alignment	realigned monitor
34	8/31/2015	2:10 PM	-	x				15	out of alignment	realigned monitor
1	9/2/2015	11:05 AM	-	x				10	out of alignment	realigned monitor
2	9/2/2015	3:30 PM	-	x				30	out of alignment	realigned monitor
3	9/2/2015	5:20 PM	-	x				35	instrument malfunction, purge failure	replaced air purge switch on mon side
4	9/3/2015	8:00 AM	-	x				10	out of alignment	realigned monitor
5	9/3/2015	1:30 PM	-	x				10	out of alignment	realigned monitor
6	9/6/2015	3:55 AM	-	x				10	out of alignment	realigned monitor
7	9/6/2015	1:55 PM	-	x				15	out of alignment	realigned monitor
8	9/7/2015	5:30 AM	-	x				15	out of alignment	realigned monitor
9	9/8/2015	4:30 PM	-	x				15	out of alignment	realigned monitor
10	9/9/2015	5:15 PM	-	x				39	out of alignment	realigned monitor
11	9/10/2015	11:00 AM	-	x				20	out of alignment	realigned monitor
12	9/10/2015	4:00 PM	-	x				120	Excessive dirt compensation	Cleaned lenses and ran cal set and final cal
13	9/10/2015	7:36 PM	-	x				44	out of alignment	realigned monitor
14	9/12/2015	2:00 AM	-	x				22	out of alignment	realigned monitor
15	9/13/2015	1:30 AM	-	x				30	out of alignment	realigned monitor
16	9/14/2015	12:12 PM	-	x				28	out of alignment	realigned monitor
17	9/15/2015	2:12 AM	-	x				14	out of alignment	realigned monitor
18	9/15/2015	9:54 AM	-	x				36	out of alignment	realigned monitor
19	9/15/2015	9:24 PM	-	x				24	out of alignment	realigned monitor
20	9/16/2015	10:48 AM	-	x				42	out of alignment	realigned monitor
21	9/29/2015	9:31 AM	-	x				8	out of alignment	realigned monitor
22	9/30/2015	10:36 AM	-	x				45	out of alignment	realigned monitor
23	9/30/2015	4:30 PM	-	x				15	out of alignment	realigned monitor
1	10/1/2015	8:54 AM	38	x				6	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
2	10/1/2015	9:12 AM	avg>20%	x				396	South EP field outlet grounded	Reduced liquor and air; repaired South EP field



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
3	10/1/2015	9:42 AM	36	x				6	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
4	10/1/2015	11:12 AM	57	x				12	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
5	10/2/2015	1:45 PM	-	x				87	Reading too low	Performed calibration on monitor
6	10/3/2015	2:06 AM	-	x				37	out of alignment	realigned monitor
7	10/4/2015	5:35 AM	-	x				6	out of alignment	realigned monitor
8	10/7/2015	9:30 AM	-	x				288	Quarterly PM	Completed
9	10/11/2015	2:18 AM	-	x				42	Out of alignment	Realigned monitor
10	10/11/2015	1:00 PM	-	x				15	Out of alignment	Realigned monitor
11	10/12/2015	10:25 AM	-	x				17	Monitor Issue, black out	Reduced air, realigned monitor
12	10/12/2015	10:54 AM	-	x				36	Monitor Issue, black out	Reduced air, realigned monitor
13	10/14/2015	9:48 AM	-	x				32	Out of alignment	Realigned monitor
14	10/14/2015	6:48 PM	-	x				33	Out of alignment	Realigned monitor
15	10/15/2015	8:30 AM	-	x				40	Out of alignment	Realigned monitor
16	10/15/2015	1:00 PM	-	x				18	Out of alignment	Realigned monitor
17	10/16/2015	8:18 PM	-	x				42	Out of alignment	Realigned monitor
18	10/17/2015	1:06 AM	-	x				39	Out of alignment	Realigned monitor
19	10/17/2015	4:30 AM	-	x				27	Out of alignment	Realigned monitor
20	10/17/2015	12:48 PM	-	x				23	Out of alignment	Realigned monitor
21	10/17/2015	10:30 PM	-	x				40	Out of alignment	Realigned monitor
22	10/18/2015	1:40 PM	-	x				7	Out of alignment	Realigned monitor
23	10/19/2015	1:54 AM	-	x				21	Out of alignment	Realigned monitor
24	10/19/2015	1:54 PM	-	x				41	Out of alignment	Realigned monitor
25	10/20/2015	10:10 AM	-	x				32	Out of alignment	Realigned monitor
26	10/20/2015	7:36 PM	-	x				12	Out of alignment	Realigned monitor
27	10/21/2015	9:36 AM	-	x				24	out of alignment	Realigned monitor
28	10/22/2015	7:18 PM	-	x				37	out of alignment	Realigned monitor
29	10/23/2015	9:36 AM	-	x				44	out of alignment	Realigned monitor
30	10/24/2015	2:12 PM	-	x				18	out of alignment	Realigned monitor
31	10/25/2015	11:54 PM	-	x				51	out of alignment	Realigned monitor
32	10/26/2015	8:48 AM	-	x				22	out of alignment	Realigned monitor
33	10/26/2015	2:54 PM	-	x				16	out of alignment	Realigned monitor
34	10/26/2015	4:18 PM	-	x				17	out of alignment	Realigned monitor
35	10/28/2015	12:12 AM	-	x				33	out of alignment	Realigned monitor
36	10/29/2015	7:54 AM	-	x				47	out of alignment	Realigned monitor
37	10/29/2015	3:00 PM	-	x				15	out of alignment	Realigned monitor
38	10/30/2015	12:05 AM	-	x				6	out of alignment	Realigned monitor
39	10/31/2015	8:42 AM	-	x				33	out of alignment	Realigned monitor
40	10/31/2015	3:42 PM	-	x				78	out of alignment	Realigned monitor
1	11/1/2015	2:18 AM	-	x				20	out of alignment	Realigned monitor
2	11/18/2015	10:45 PM	-	x				10	out of alignment	Realigned monitor
3	11/19/2015	12:54 AM	-	x				18	out of alignment	Realigned monitor
4	11/20/2015	2:25 AM	-	x				70	out of alignment	Realigned monitor
5	11/20/2015	7:48 PM	-	x				17	out of alignment	Realigned monitor
6	11/21/2015	12:30 AM	-	x				35	System alarm, purge failure monitor	Replaced purged filters



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
7	11/21/2015	11:00 AM	-	x				20	out of alignment	Realigned monitor
8	11/22/2015	6:48 AM	-	x				22	out of alignment	Realigned monitor
9	11/22/2015	8:10 PM	-	x				45	System alarm, purge failure monitor	Replaced purge switch
10	11/23/2015	8:00 PM	-	x				44	out of alignment	Realigned monitor
11	11/24/2015	9:00 AM	-	x				33	out of alignment	Realigned monitor
12	11/24/2015	6:35 PM	-	x				15	out of alignment	Realigned monitor
13	11/25/2015	9:00 AM	-	x				36	out of alignment	Realigned monitor
14	11/25/2015	3:45 PM	-	x				35	out of alignment	Realigned monitor
15	11/26/2015	12:18 AM	-	x				27	out of alignment	Realigned monitor
16	11/26/2015	2:40 AM	-	x				10	out of alignment	Realigned monitor
17	11/27/2015	11:30 AM	-	x				16	out of alignment	Realigned monitor
18	11/28/2015	12:54 AM	80	x				30	EP breaker tripped	Pulled liquid, put oil in, reset EP
1	12/1/2015	1:25 AM	-	x				10	out of alignment	Realigned monitor
2	12/1/2015	4:30 PM	-	x				36	out of alignment	Realigned monitor
3	12/3/2015	9:12 PM	-	x				33	out of alignment	Realigned monitor
4	12/4/2015	10:36 AM	-	x				24	out of alignment	Realigned monitor
5	12/4/2015	6:50 PM	-	x				12	out of alignment	Realigned monitor
6	12/6/2015	2:12 PM	-	x				58	out of alignment	Realigned monitor
7	12/8/2015	1:25 AM	-	x				10	out of alignment	Realigned monitor
8	12/8/2015	4:55 PM	-	x				15	out of alignment	Realigned monitor
9	12/15/2015	9:45 AM	-	x				15	out of alignment	Realigned monitor
10	12/15/2015	2:00 PM	-	x				35	out of alignment	Realigned monitor
11	12/16/2015	7:50 AM	-	x				20	out of alignment	Realigned monitor
12	12/16/2015	12:30 PM	-	x				40	out of alignment	Realigned monitor
13	12/20/2015	11:00 AM	-	x				10	out of alignment	Realigned monitor
14	12/20/2015	4:50 PM	-	x				20	out of alignment	Realigned monitor
15	12/22/2015	4:48 AM	-	x				24	out of alignment	Realigned monitor
16	12/23/2015	8:30 AM	-	x				330	Excessive dust drift	Cleaned lenses and calibrated
17	12/30/2015	12:24 PM	-	x				71	out of alignment	Realigned monitor

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

Scott Palmer 1/15/16



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Lime Kiln No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.07.12(B), 5.C.17(A), & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

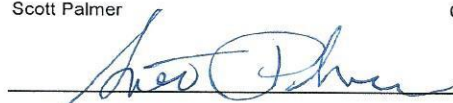
Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
1	7/13/15	10:24 PM	-	x				6	falsely high rdg due to intense rain	rain subsided
2	7/22/15	10:15 AM	-	x				120	quarterly audit performed	completed
3	7/25/15	1:18 PM	76	x				6	EP tripped	bypassed EP until reset
4	7/25/15	8:42 PM	88	x				12	EP tripped	bypassed EP until reset
5	7/29/15	1:18 AM	95	x				24	EP tripped	bypassed EP until reset
6	7/29/15	1:30 AM	avg>20%	x				60	EP tripped	bypassed EP until reset
There were no excursion events or downtime during the month of August 2015.										
1	9/15/15	7:54 PM	31	x				6	heating up kiln after attempting to unplug ring	added fuel, O2, heated up kiln
2	9/15/15	9:12 PM	28	x				6	heating up kiln after attempting to unplug ring	added fuel, O2, heated up kiln
3	9/23/15	1:42 AM	-	x				498	failed daily cal	trouble-shoot, ran cal
4	9/24/15	3:00 PM	-	x				6	failed daily cal	ran cal
5	9/25/15	10:36 AM	-	x				54	failed daily cal	ran cal
6	9/29/15	10:35 AM	-	x				171	remote head dirty & out of alignment	cleaned, realigned meter
7	9/30/15	1:20 PM	-	x				100	upscale Iris needed adjustment	adjusted, ran cal
1	10/9/15	8:48 AM	23	x				12	Heating up kiln after a shut down	Stabilized after start-up
2	10/9/15	2:06 PM	-	x				24	Bad condensor fan motor in Coas analyzer room	Hooked up air hose
3	10/9/15	8:12 PM	25	x				18	EP field 3 tripped	Reset EP
1	11/21/15	10:24 AM	28	x				6	EP Tripped	Added air, cut mud, reset EP
2	11/23/15	1:24 AM	24	x				6	EP Tripped	I/E calibrated O2 gas analyzer
1	12/13/15	6:00 PM	-	x				12	Opacity spiked, operator wanted monitor checked.	Cleaned lens and aligned
2	12/16/15	12:54 PM	-	x				66	Quarterly Calibration	Completed calibration
3	12/23/15	2:54 PM	-	x				30	Heavy rain caused opacity meter to spike	I/E cleaned opacity lens
4	12/24/15	1:24 PM	48	x				6	O2 gas analyzer failed causing EP to trip	I/E corrected O2 gas analyzer and returned EP
5	12/30/15	12:36 PM	31	x				6	Heavy rain caused opacity meter to spike	None

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Smelt Dissolving Tank Vent Scrubber

ID 2510, ID 5110

SIP, NSPS

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.2; 07.16(A) & (B); 07.B.MACT.5


This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Pump Pressure, Flow, delta P			
					There were no excursion events or downtime during the month of July 2015.	
					There were no excursion events or downtime during the month of August 2015.	
1	9/10/15	7:00 PM	Weak Wash Flow	60	lost seal tank flow, shut pump down to recover seal tank	restored scrubber flow
					There were no excursion events or downtime during the month of October 2015.	
1	11/17/15	9:00 PM	Weak Wash Flow	300	Shut down RB3, had to cut back scrubber flow	Returned RB3 back to service
1	12/7/15	12:00 PM	Weak Wash Flow	180	Had to reduce black liquor firing rate due to Mill operations	Stablized RB loading and returned BL firing rate

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

 1/15/16

CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.3, 5.C.07.12, 5.C.15, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

[illegible]

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

Scott Palmer  General Manager
1/15/16



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/15 to 12/31/15

Permit Condition 5.C.07.12(B)


This report is for indicated excessive NOx (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
								There were no excursion events or downtime during the month of July 2015.	
								There were no excursion events or downtime during the month of August 2015.	
								There were no excursion events or downtime during the month of September 2015.	
1	10/8/15	9:00 AM	-		x		135	quarterly PM	completed
2	10/17/15	7:18 AM	-		x		29	Failed morning calibration (drift).	Ran initial calibration
								There were no excursion events or downtime during the month of November 2015.	
								There were no excursion events or downtime during the month of December 2015.	

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 2

Report Period 7/1/15 to 12/31/15

Permit Condition 5.C.07.14

This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.


Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/8/15	8:00 AM	-		x		360	cal gas low	changed cal gas bottle & citi cell, ran man & init cal
2	7/17/15	10:00 AM	-		x		60	TRS readings extremely high	replaced broken cal gas sample line and ran init cal
1	8/18/15	9:00 AM	-		x		360	quarterly PM	completed
There were no excursion events or downtime during the month of September 2015.									
1	10/3/15	8:25 AM	-		x		25	Failed morning calibration; Cal. Bottle low	Changed bottle and ran initial calibration
2	10/8/15	12:00 PM	-		x		90	Quarterly PM	Completed PM
3	10/19/15	6:30 AM	-		x		810	Failed morning calibration; O2 readings were high when unit was put back in service due to boiler being down at time	Rebuilt transfer pump and ran initial calibration.
4	10/24/15	9:20 AM	-		x		90	TRS span unreasonable alarm on hw	Ran initial cal.
1	11/8/15	8:30 AM	-		x		30	TRS Span probe alarm	Checked stack, cleared alarm
2	11/9/15	6:30 AM	-		x		690	Failed morning cal, due to span drift	Checked system for leaks, replaced kicker tube assembly, replaced 43i internal pump, adjusted PMT voltage. Ran initial cal.
3	11/11/15	9:00 AM	-		x		95	Operations reported low TRS reading	Checked system, no serious problems, ran initial cal.
4	11/24/15	6:30 AM	-		x		450	Failed morning cal, due to span drift	Changed TRS sample gas bottle, adjusted PMT voltage; changed range values to reflect new cal. Gas; ran initial cal.
5	11/26/15	6:23 AM	-		x		19	Failed morning cal, TRS span drift	Ran initial cal.
6	11/30/15	10:03 AM	-		x		17	Failed morning cal, TRS span drift	Adjusted PMT voltage and ran initial cal.
1	12/4/15	6:30 AM	-		x		270	Failed morning cal due PMT drift	Reset PMT voltage, ran initial cal.
2	12/20/15	7:20 PM	-		x		70	Honeywell alarm for TRS span	Ran normal calibration
3	12/24/15	9:48 AM	-		x		57	Failed morning cal, TRS span drift	Ran manual and initial cal.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Recovery Boiler No. 3

Report Period 7/1/15 to 12/31/15

Permit Condition 5.C.07.15

This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.


Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	7/1/15	10:00 AM			x		90	negative TRS reading	checked for leaks and calibrated
2	7/3/15	6:30 AM	-		x		480	failed morning cal	ran initial cal
3	7/17/15	11:00 AM	-		x		630	TRS reading low and O2 reading high	checked for leaks, found plugged eductor orifice, ran init cal
1	8/13/15	10:40 AM	-		x		30	changed TRS and NOx bottle	ran initial cal
2	8/13/15	12:35 PM	-		x		5	needed to correct concentration value in CTC monitor	completed
3	8/18/15	9:00 AM	-		x		360	quarterly PM	completed
There were no excursion events or downtime during the month of September 2015.									
1	10/26/15	6:30 AM	-		x		390	Failed morning cal on O2 span drift	Adjusted citi-cell and ran initial cal.
1	11/9/15	6:30 AM	-		x		390	Failed morning cal on O2 span drift	Checked system for leaks, adjusted citi-cell span and zero output. Ran initial cal.
2	11/21/15	8:58 AM	-		x		122	Failed morning cal on O2 span drift	Did maintenance and initial cal.
3	11/25/15	10:00 AM	-		x		255	Failed morning cal on O2 span drift; enclosure temp. low	Replaced city cell, repaired wiring in enclosure heater, ran initial cal.
There were no excursion events or downtime during the month of December 2015.									

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Lime Kiln No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.07.17(A)

This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

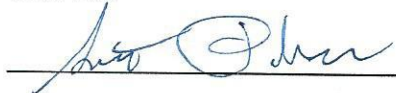
Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
There were no excursion events or downtime during the month of July 2015.										
1	8/2/15	10:40 AM	-		x			65	failed cal, span drift	ran man and init cal
2	8/13/15	9:50 AM	-		x			113	failed morning cal	adjusted citi cell and signal isolator, ran initial cal
3	8/17/15	9:00 AM	-		x			420	probe failure, broken air line	changed probe filter, repaired air lines & loose connections, ran init cal
4	8/29/15	7:50 AM	-		x			70	failed cal span drift	ran man and init cal
1	9/27/15	8:20 PM	-		x			25	Operator requested calibration	ran normal calibration
1	10/3/15	7:45 PM	-		x			25	Operator requested calibration	ran normal calibration
2	10/8/15	3:00 PM	-		x			105	Quarterly PM	Completed
3	10/9/15	7:43 PM	-		x			17	Span drift alarm	Recalibrated, OK
4	10/10/15	9:45 AM	-		x			15	Failed calibration, span drift	Ran initial calibration, OK
5	10/11/15	8:45 AM	-		x			30	Span drift out of range	Adjusted citi cell to read 17.4 at stack
6	10/12/15	1:00 PM	-		x			150	Failed calibration previous few days	Changed test gas bottle, ran manual cal., and ran intial cal.
7	10/17/15	7:55 AM	-		x			23	Failed calibration, span drift	Ran initial calibration, OK
1	11/29/15	11:32 AM	-		x			10	Failed calibration O2 span drift	Adjusted citi cell, ran initial cal, OK
1	12/12/15	8:10 AM	-		x			60	Failed calibration O2 span drift	Replaced citi cell, made adjustments on stack, ran initial Cal.
2	12/13/15	8:34 AM	-		x			60	Failed calibration O2 zero drift	Made minor adjustments to zero and span on citi cell; ran initial cal.
3	12/20/15	6:05 AM	-		x			160	Failed calibration O2 zero drift	Calibrated citi cell, ran manual and initial cal.
4	12/21/15	6:20 AM	-		x			40	Failed calibration TRS span drift	Ran manual and initial calibration

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
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CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Combination Boiler No. 1

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	10/7/15	1:00 PM	-	x			60		Quarterly PM	Completed
2	10/15/15	2:56 PM	-	x			12		#1 CB Tripped, pulled bark, gas in	Returned CB#1 to normal operation
3	10/16/15	10:30 AM	50	x			12		Contractors hit stop button on ID Fan	Start ID Fan back up
4	10/16/15	3:02 PM	-	x			82	82	Fire in EP	Pulled bark, bypassed EP, fire water on
5	10/17/15	7:24 AM	-	x			36	36	Fire in EP	Pulled bark, bypassed EP, fire water on
1	11/10/15	3:00 AM	42	x			6		EP inlet field tripped	Reset and restarted
2	11/13/15	10:54 AM	-	x			108	108	Fire in hopper	Pulled bark, bypassed EP, fire water on
3	11/14/15	7:12 PM	-	x			72	72	Fire in hopper	Pulled bark, bypassed EP, fire water on
4	11/17/15	11:43 PM	-	x			77	77	Fire in hopper	Pulled bark, bypassed EP, fire water on
5	11/19/15	12:24 AM	-	x			88	88	Fire in hopper	Pulled bark, bypassed EP, fire water on
6	11/23/15	4:26 AM	-	x			52	52	Fire in hopper	Pulled bark, bypassed EP, fire water on
7	11/23/15	5:42 PM	41	x			6		Testing oil guns	Stop test
8	11/23/15	9:36 PM	73	x			6		Heavy load	Load stabilized
There were no excursion events or downtime during the month of December 2015.										

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
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Catawba, SC 29704-0007

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CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Combination Boiler No. 2

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	10/7/15	1:00 PM	-	x			60		Quarterly PM	Completed
2	10/18/15	1:18 AM	46	x			12		Wet bark	Cut back on air and bark
3	10/18/15	8:24 AM	41	x			6		Heavy load	Cut back on bark
4	10/18/15	9:12 AM	49	x			12		Heavy load	Cut back on bark
1	11/15/15	4:00 AM	42	x			6	6	Fire in hopper	Bypass EP and pull bark
2	11/15/15	4:06 AM	-	x			89	89	Fire in hopper	Bypass EP, pull bark, washed with fire water
3	11/19/15	12:54 AM	41	x			6		EP outlet field tripped	Reset field
4	11/19/15	9:54 AM	80	x			18		Problem with CB1 EP, inadvertently bypassed CB2 EP fields turned off	Restarted fields on CB2 EP
5	11/23/15	9:30 PM	68	x			30	30	Fire in hopper; bypass EP, added fire water, could not pull bark, oil burners would not work	Returned EP
1	12/12/15	1:36 AM	41	x			6		Heavy load	Cut back on bark and gas to lower steam load
2	12/27/15	4:54 PM	55	x			6		Draft swinging	Put all dampers and fans in manual; rodded draft taps

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

Scott Palmer 1/15/16



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Combination Boiler No. 1

Report Period 7/1/15 to 12/31/15

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	7/8/15	5:24 AM	80	x			18	20	bypassed EP before pulling bark for maintenance	pulled bark, proceeded with maintenance
2	7/8/15	5:43 AM	-	x			617	617	bypassed EP, pulled bark for maintenance	completed, restored
3	7/9/15	8:47 AM	-	x			36	523	bypassed EP, pulled bark to work on TR1 field (not loading)	completed, restored
4	7/10/15	7:14 AM	-	x			1621	1621	bypassed EP, pulled bark for maintenance	completed, restored
5	7/11/15	11:05 AM	-	x			205	205	bypassed EP, pulled bark for maintenance on inlet field	completed, restored
6	7/18/15	2:06 PM	62	x			18	18	bypassed EP before pulling bark for maintenance	pulled bark, proceeded with maintenance
7	7/18/15	2:44 PM	-	x			12	32	bypassed EP, pulled bark for maintenance	completed, restored
8	7/22/15	8:08 PM	-	x			2727	2727	bypassed EP, pulled bark for maintenance work	completed, restored
1	8/19/15	10:00 AM	-	x			90		annual monitor QA check	completed
1	9/22/15	8:06 AM	-	x			156	156	bypassed EP, pulled bark for maintenance work	Completed, restored
1	10/7/15	1:00 PM	-	x			60		Quarterly PM	Completed
2	10/15/15	2:56 PM	-	x			12		#1 CB Tripped, pulled bark, gas in	Returned CB#1 to normal operation
3	10/16/15	10:30 AM	50	x			12		Contractors hit stop button on ID Fan	Start ID Fan back up
4	10/16/15	3:02 PM	-	x			82	82	Fire in EP	Pulled bark, bypassed EP, fire water on
5	10/17/15	7:24 AM	-	x			36	36	Fire in EP	Pulled bark, bypassed EP, fire water on
1	11/10/15	3:00 AM	42	x			6		EP inlet field tripped	Reset and restarted
2	11/13/15	10:54 AM	-	x			108	108	Fire in hopper	Pulled bark, bypassed EP, fire water on
3	11/14/15	7:12 PM	-	x			72	72	Fire in hopper	Pulled bark, bypassed EP, fire water on
4	11/17/15	11:43 PM	-	x			77	77	Fire in hopper	Pulled bark, bypassed EP, fire water on
5	11/19/15	12:24 AM	-	x			88	88	Fire in hopper	Pulled bark, bypassed EP, fire water on
6	11/23/15	4:26 AM	-	x			52	52	Fire in hopper	Pulled bark, bypassed EP, fire water on
7	11/23/15	5:42 PM	41	x			6		Testing oil guns	Stop test
8	11/23/15	9:36 PM	73	x			6		Heavy load	Load stablized
There were no excursion events or downtime during the month of December 2015.										

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

Scott Palmer 1/15/16



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
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SIP

CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Combination Boiler No. 2

Report Period 7/1/15 to 12/31/15

Permit Conditions 5C.08.1(B), 5C.08.2(B), 5C.08.6, & 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	7/3/15	1:18 AM	62	x			12		high load on boiler	cut back on fuel and bark
2	7/3/15	4:32 AM	42	x			6		NE hopper fire	put in gas pulled bark
3	7/3/15	4:40 AM	-	x			52	60	NE hopper fire	put in gas pulled bark
4	7/11/15	6:56 PM	-	x			82	82	EP bypass & bark out before boiler shutdown	boiler shutdown
5	7/31/15	12:36 PM	72	x			12		TR2 tripped	reduced bark and air, reset TR2
1	8/19/15	10:00 AM	-	x			90		annual monitor QA check	completed
There were no excursion events or downtime during the month of September 2015.										
1	10/7/15	1:00 PM	-	x			60		Quarterly PM	Completed
2	10/18/15	1:18 AM	46	x			12		Wet bark	Cut back on air and bark
3	10/18/15	8:24 AM	41	x			6		Heavy load	Cut back on bark
4	10/18/15	9:12 AM	49	x			12		Heavy load	Cut back on bark
1	11/15/15	4:00 AM	42	x			6	6	Fire in hopper	Bypass EP and pull bark
2	11/15/15	4:06 AM	-	x			89	89	Fire in hopper	Bypass EP, pull bark, washed with fire water
3	11/19/15	12:54 AM	41	x			6		EP outlet field tripped	Reset field
4	11/19/15	9:54 AM	80	x			18		Problem with CB1 EP, inadvertently bypassed CB2 EP fields turned off	Restarted fields on CB2 EP
5	11/23/15	9:30 PM	68	x			30	30	Fire in hopper; bypass EP, added fire water, could not pull bark, oil burners would not work	Returned EP
1	12/12/15	1:36 AM	41	x			6		Heavy load	Cut back on bark and gas to lower steam load
2	12/27/15	4:54 PM	55	x			6		Draft swinging	Put all dampers and fans in manual; rodded draft taps

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

Scott Palmer 1/15/16



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
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Catawba, SC 29704-0007

ID 2605, ID 3705

SIP, NSPS

CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Low Volume High Concentration Gas System

Report Period 7/1/15 to 12/31/15

4.C.08.1(B), 5.C.08.2(B1), 5.C.08.7, & MACT.1(C)

* multiple effect evaporator systems exceeding 5 minutes duration, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	LVHC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	7/22/15	8:22 PM	PH Main	12	CB2 gas burner tripped	gas burner restored
There were no excursion events or downtime during the month of August 2015.						
There were no excursion events or downtime during the month of September 2015.						
1	10/13/15	8:34 AM	PH Evap	8	Broken air line on vent valve	Called EI to get LVHC back in system
2	10/15/15	2:49 PM	PH (all)	32	#1 CB Tripped out due to wet bark	Changed gas over to #2CB and reset
3	10/18/15	7:27 AM	PH LVHC	6	Gas valve stuck in boiler	Fixed valve
4	10/19/15	8:17 AM	PH Feed tank	6	#2 CB burners tripped, lost bark flow, low steam	Increased bark and aux. burners
5	10/23/15	9:13 AM	PH Evap & LVHC	32	Ejector pressure switch giving a low reading, venting	Raised 150# header above normal and switch reset
6	10/24/15	2:49 PM	PH LVHC	11	Loss igniter flame	Reset
1	11/23/15	6:52 PM	PH LVHC (all)	46	Lost bark due to plugged chute; could not get enough fuel in to steam either boiler	Returned bark and increased 150# header to normal, put LVHC sources back in.
2	11/23/15	6:52 PM	Fiberline LVHC (all)	9	150# head pressure went low.	Returned bark and increased 150# header to normal, put LVHC sources back in.
3	11/23/15	9:39 PM	PH LVHC Feed Tank	8	CB2 main gas valve malfunctioned	Closed CB2 main gas valve
4	11/25/15	9:10 PM	PH LVHC Evap 2	6	Evap 2 collection LVHC collection valve would not close	Manually closed collection valve.
5	11/30/15	2:58 AM	PH LVHC (all)	44	Steam injector pressure went low; unable to close vent valve.	Pressure returned; manually returned vent valve.
6	11/30/15	2:58 AM	Fiberline LVHC (all)	29	Power loss caused shutdown of feed system.	Returned power
There were no excursion events or downtime during the month of December 2015.						

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

1/15/16



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CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

High Volume Low Concentration Gas System

Report Period 7/1/15 to 12/31/15

Permit Conditions 5.C.08.1(B), 5.C.08.2(B1), 5.C.08.7, & MACT.1(C)

This report is for indicated emissions from the fiberline, pulp washing systems, oxygen delignification, and screening/knotting systems exceeding 5 minutes duration, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	HVLC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
	There were no excursion events or downtime during the month of July 2015.					
	There were no excursion events or downtime during the month of August 2015.					
1	9/23/15	12:42 PM	Power House	10	CB2 fell below min steam flow due to several bark screws down	unplugged bark screws to increase steam flow
1	10/15/15	2:49 PM	Power House	14	#1 CB Tripped out due to wet bark	Changed gas over to #2CB and reset
1	11/15/15	3:18 AM	Power House	318	Belts on HVLC fan broke	Repaired belts, returned fan to service
2	11/23/15	6:53 PM	Power House	29	Lost bark due to plugged chute; could not get enough fuel in to steam either boiler; 150# head pressure went low.	Returned bark and increased 150# header to normal, put LVHC sources back in.
3	11/30/15	2:58 AM	Power house	9	Steam injector pressure went low; unable to close vent valve.	Pressure returned; manually returned vent valve.
4	11/30/15	2:58 AM	Fiberline	21	Power loss caused shutdown of feed system.	Returned power
1	12/30/15	9:41 AM	Fiberline	55	Maintenance required at Powerhouse; needed to open vent valve	Completed maintenance and closed vent valve.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16